

Patent Claims:

1. Mopping device for mopping surfaces to be cleaned, particularly floor surfaces, with a longitudinally extended mop covering holder (1) forming a mopping side and a top side preferably oriented at an inclination relative to the mopping side, with a handle sleeve (3) mounted on the mop covering holder (1) at the top side and preferably provided with a simple or universal pivot joint (2) relative to the mop covering holder (1), with an operating handle (4) inserted in the handle sleeve (3) or integrated with the handle sleeve (3), and with a mop covering (5), which is arranged at the mop covering holder (1) at the mopping side and which is fastened to be replaceable, of textile or textile-like material, characterised in that the mop covering holder (1) has a reservoir (6) for reception of a larger quantity of cleaning liquid, which can issue onto the mop covering (5), which is fastened to the mop covering holder (1), by way of at least one discharge opening (7) in the mop covering holder (1), and that the mop covering holder (1) additionally has at least one ventilation opening (8) by way of which air can escape from the reservoir (6) during filling of the reservoir (6) with cleaning liquid and can flow back into the cavity (6) during discharge of cleaning liquid from the cavity (6).
2. Mopping device according to claim 1, characterised in that the mop covering holder (1) has an approximately circular cross-section.
3. Mopping device according to claim 1 or 2, characterised in that the ventilation opening (8) is arranged at the mop covering holder (1) at the top side.
4. Mopping device according to any one of claims 1 to 3, characterised in that the ventilation opening (8) is manually closable and openable by means of a movable closure element (10).
5. Mopping device according to claim 4, characterised in that the closure element (10) is constructed as a closure plug.
6. Mopping device according to claim 4, characterised in that the closure element (10) is constructed as a withdrawable and re-insertable closure strip.

7. Mopping device according to claim 4, characterised in that the closure element (10) is constructed as a closure cap which is preferably formed to be resilient and executed to be, in particular, bell-shaped.
8. Mopping device according to any one of claims 4 to 7, characterised in that the closure element (10) is captively mounted.
9. Mopping device according to any one of claims 4 to 8, characterised in that the ventilation opening (8) is arranged in the region of the handle sleeve (3) and the closure element (10) is arranged at or in the handle sleeve (3) and adjustable substantially perpendicularly to the top side of the mop covering holder (1).
10. Mopping device according to claim 9, characterised in that a bearing (11) for the closure element (10) is provided in the handle sleeve (3).
11. Mopping device according to any one of claims 4 to 10, characterised in that the closure element (10) is adjustable by means of an adjusting mechanism (12) which is arranged at or, preferably, in the operating handle (4) and which is fixable in a closed setting holding the closure element (10) in closing position on the ventilation opening (8).
12. Mopping device according to claim 11, characterised in that the adjusting mechanism (12) comprises a setting rod (13) which is arranged in or at the operating handle (4) and which is fixable at least in a pushed-forward closed setting holding the closure element (10) in closing position on the ventilation opening (8).
13. Mopping device according to claim 12, characterised in that the setting rod (13) is actuatable, for fixing, in a rotary motion about the axis thereof.
14. Mopping device according to claim 13, characterised in that the upper end or an intermediate member of the setting rod (13) extends in an 'L' groove (14) in or at the operating handle (4) and fixing is effected in accordance with the functional principle of a bayonet closure.

15. Mopping device according to any one of claims 11 to 14, characterised in that the upper end or the intermediate member of the setting rod (13) is provided with a manual actuating element (15) preferably constructed as a sleeve covering the bayonet closure.
16. Mopping device according to claim 11 or 12, characterised in that the adjusting mechanism (12) adjusts the closure element (10) only by linear displacement and is fixable in the closed setting by detenting.
17. Mopping device according to claim 11, characterised in that the adjusting mechanism (12) comprises a hydraulic transfer path arranged in or at the operating handle (4).
18. Mopping device according to any one of claims 11 to 17, characterised in that the closure element (10) is biased by means of a spring element (12') of the adjusting mechanism (12) into an open setting.
19. Mopping device according to any one of claims 1 to 18, characterised in that the discharge opening (7) or the several discharge openings (7) is or are arranged on the mopping side of the mop covering holder (1).
20. Mopping device according to claim 19, characterised in that the discharge opening (7) or the several discharge openings (7) are covered by the mop covering (5) fastened to the mop covering holder (1).
21. Mopping device according to claim 20, characterised in that the mop covering (5) is provided with a retention moulding (16) insertable into the discharge opening (7) or with retention mouldings (16) insertable into the several discharge openings (7).
22. Mopping device according to claim 19 or 20, characterised in that the mop covering holder (1) has at the mopping side a receiving groove (17), which extends over its full length, for a strip-like retention moulding (16) mounted or formed at the mop covering (5).
23. Mopping device according to claim 22, characterised in that the retention moulding (16) at the mop covering (6) is a sewn-on strip of textile or textile-like material or a strip formed from the material of the mop covering (5) itself by folding over and stitching down.

24. Mopping device according to claim 22 or 23, characterised in that the mop covering (5) is constructed as a substantially elongated rectangular flat mop covering with a retention moulding (16) extending approximately centrally.
25. Mopping device according to one of claims 22 to 24, characterised in that the receiving groove (17) is closed relative to the reservoir (6) and, in particular, preferably by a hollow rail (18) inserted therein.
26. Mopping device according to claim 25, characterised in that the discharge opening (7) or several discharge openings (7) is or are arranged in the wall of the hollow rail (18) forming the receiving groove (17) or that the discharge opening (7) or several discharge openings (7) is or are arranged laterally of the receiving groove (17) and on the mopping side of the mop covering holder (1).
27. Mopping device according to one of claims 1 to 26, characterised in that the mop covering (5) is provided at the end with fastening elements (19), preferably at the retaining moulding (16), the fastening elements being fastenable to fastening counter-elements (20) at the mop covering holder (1).
28. Mopping device according to claim 27, characterised in that the fastening counter-elements (20) are arranged at the top side of the mop covering holder (1).
29. Mopping device according to claim 27 or 28, characterised in that the fastening counter-elements (20) are constructed as retaining clips and the fastening elements (19) as strips with retaining knubs or the like at the ends.
30. Mopping device according to any one of claims 1 to 29, characterised in that the mop covering holder (1) has a length of 300 to 500 mm, preferably approximately 400 mm, and, preferably a diameter of 30 to 50 mm, preferably approximately 40 mm.
31. Mopping device according to any one of claims 1 to 30, characterised in that the mop covering (5) has a format of approximately 80 mm x 300 mm to approximately 150 mm x 540 mm, preferably approximately 100 mm x 460 mm.

32. Mopping device according to any one of claims 1 to 31, characterised in that the mop covering (5) is somewhat longer than the mop covering holder (1), preferably at each of the ends by 20 to 50 mm, in particular approximately 35 mm.

33. Mopping device according to any one of claims 1 to 32, characterised in that the mop covering (5) consists of textile or textile-like material with only a small liquid storage effect and with a weight of approximately 40 g to 70 g, preferably approximately 50 g, for an area of approximately 100 mm x 460 mm.

34. Mop covering holder with a mopping side and a top side and a handle sleeve (3), which is mounted at the top side and preferably provided with a simple or universal pivot joint (2), and an operating handle (4) inserted in the handle sleeve (3) or integrated with the handle sleeve (3), particularly for use in a mopping device according to any one of claims 1 to 33, characterised in that the mop covering holder (1) has a reservoir (6) for reception of a larger quantity of cleaning liquid which can issue onto the mop covering (5), which is fastened to the mop covering holder (1), by way of at least one discharge opening (7) in the mop covering holder (1), and that the mop covering holder (1) additionally has at least one ventilation opening (8) by way of which air can escape from the reservoir (6) during filling of the reservoir (6) with cleaning liquid and air can flow back into the reservoir (6) during discharge of cleaning liquid from the reservoir (6).

35. Mopping device according to claim 34, characterised by the features of the characterising part of one or more of claims 2 to 19, 22, 25, 26 and 30.

36. Mop covering holder according to claim 34 or 35, characterised by fastening counter-elements (20) at the top side, which can be brought into engagement with fastening elements (19) at a mop covering (5) to be mounted, wherein the fastening counter-elements (20) are preferably constructed as retaining clips.

37. Mop covering of textile or textile-like material, particularly for a mopping device according to any one of claims 1 to 33, characterised in that the mop covering (5) has a retaining moulding (16) insertable into an discharge opening (7) at a mop covering holder (1) or several retaining mouldings (16) insertable into several discharge openings (7) at a mop covering holder (1) or that the mop covering (5) has a strip-like retaining moulding

(16), which is mounted or formed thereat, for introduction into an elongate receiving groove (7) at a mop covering holder (1).

38. Mop covering according to claim 37, characterised by the features of the characterising part of one or more of claims 23, 24, 27, 31, 32 and 33.

39. Mopping device according to claim 27 or 28 and optionally one of claims 30 to 33, characterised in that the fastening elements (19) at the mop covering (5) are constructed as narrow fastening strips which extend approximately transversely across the mop covering holder (1) when the mop covering (5) is fastened and which are mounted on the mop covering (5) only at their ends and that the fastening counter elements (20) are so constructed and arranged at the mop covering holder (1) that an undesired longitudinal displacement of the mop covering (5) relative to the mop covering holder (1) is prevented.

40. Mopping device according to claim 29, characterised in that the fastening elements (19) constructed as fastening strips are resiliently extensible in the longitudinal direction thereof.

41. Mopping device according to claim 39 or 40, characterised in that the fastening elements (19) constructed as fastening strips are so constructed that they stand up from the upper side of the mop covering (5) even without the mop covering (5) being fastened to the mop covering holder (1).

42. Mopping device according to one of claims 39 to 41, characterised in that for formation of the fastening counter elements (20) the reservoir (6) of the mop covering holder (1) is constructed to be narrowed at the ends associated with the fastening elements (19), particularly to narrow at the top side in stepped manner, and the intended position of the fastening elements (19) lies in the narrowed region.

43. Mopping device according to one of claims 39 to 41, characterised in that the fastening counter elements (20) of the mop covering holder (1) are edge recesses, which go out from the ends associated with the fastening elements (19), in the reservoir (6), in which the fastening elements (19) lie in the intended position.

44. Mopping device according to one of claims 39 to 41, characterised in that the fastening counter elements (20) of the mop covering holder (1) are edge recesses, in which the fastening elements (19) lie in the intended position, at the longitudinal sides of the reservoir (6) extending approximately transversely to the path of the fastening elements (19).

45. Mopping device according to claim 43 or 44, characterised in that the edge recesses are connected by a recess extending on the upper side of the reservoir (6).

46. Mopping device according to one of claims 39 to 41, characterised in that the fastening counter elements (20) of the mop covering holder (1) are edge projections, which are arranged at the longitudinal sides of the reservoir (6) extending approximately transversely to the path of the fastening elements (19) and which prevent further pushing of the fastening elements (19) onto the reservoir (6).

47. Mopping device according to one of claims 39 to 41, characterised in that the fastening counter elements (20) of the mop covering holder (1) are projections which are arranged at the upper side of the reservoir (6) and which prevent further pushing of the fastening elements (19) onto the reservoir (6).

48. Mopping device according to claim 47, characterised in that further projections (21) are associated with the fastening counter elements (20) at the mop covering holder (1), wherein the fastening elements (19) come to lie between the fastening counter elements (20) and the projections (21).

49. Mopping device according to claim 27 or 28 and optionally one of claims 30 to 33 and/or 39 to 48, characterised in that the mop covering (5) is formed to be reversible and that the fastening elements (19) are mounted at the edges of the mop covering (5) in such a manner that they have substantially the same position relative to the mop covering (5) in both positions of the mop covering (5).

50. Mopping device according to claim 49, characterised in that the mop covering (5) consists of two fixedly interconnected, particularly stitched, cleaning-active layers, wherein the layers preferably have different structures or surfaces or materials or material

compositions and/or the fastening elements (19) are fastened at the end between the layers, in particular are stitched to the layers.

51. Mop covering holder according to claim 36, characterised by the features of the characterising part of one or more of claims 42 to 48.

52. Mop covering of textile or textile-like material for a mopping device according to one of claims 39 to 50, wherein the mop covering (5) is provided at the ends with fastening elements (19), characterised in that the fastening elements (19) at the mop covering (5) are constructed as narrow fastening strips which extend approximately transversely across the mop covering holder (1) when the mop covering (5) is fastened and which are mounted on the mop covering (5) only at their ends.

53. Mop covering according to claim 52, characterised by the features of the characterising part of one or more of claims 40, 41, 49, 50.